

# Hempadur EM 35740

## Product characteristics

### Description

Hempadur EM 35740 is an ultra-high solids and very low VOC epoxy coating. It has good self-priming properties and is suited for application even under humid conditions and on marginally prepared surfaces. Treated areas, e.g. ballast tanks, can quickly be re-immersed and put back into service. Time to ballast: 8 hours at 20°C [68°F].

### Recommended use

Hempadur EM 35740 is recommended for small areas difficult to access, where climate control and surface preparation is difficult. The product is especially recommended for onboard maintenance and spot repair in e.g. water ballast tanks and on decks. It can be used on moist surfaces under conditions of 100% relative humidity.

### Service temperature:

- Maximum, dry exposure only: 120°C [248°F].

### Certificates / Approvals

- Complies with US FDA and EU food regulations for contact with dry foodstuff. Consult Hempel for details.

### Features

- Damp surface tolerance.
- Fast re-immersion.
- Ultra high solids.
- Very low VOC.

## Product safety

**Flash point** 33°C [91°F]

### VOC content mixed product

Legislation	Value
EU	52 g/L [0.43 lb/US gal]
US (coatings)	52 g/L [0.43 lb/US gal]
US (regulatory)	52 g/L [0.43 lb/US gal]
China	52 g/L [0.43 lb/US gal]

According to specific legislation, see details in the Explanatory Notes available at Hempel website, [hempel.com](http://hempel.com) or at your local Hempel website.

### Handling

Handle with care. Before and during use, observe safety labels on packaging and paint containers and follow all local and national safety regulations. Always consult Hempel's Safety Data Sheet for this product along with the Product Data Sheet.

For professional use only.

## Product data

### Product code

35740

### Product components

Base 35749  
Curing Agent 98040

### Standard shade\* / code

Light green 47960

### Gloss

Semi-gloss

### Volume solids

97 ± 2%

### Specific gravity

1.3 kg/L [11 lb/US gal]

### Reference dry film thickness

150 micron [5.9 mils]

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## Surface preparation

### Cleanliness

- Remove oil, grease and other contaminants by suitable detergent cleaning.
- Remove salts, detergents and other contaminants by high pressure fresh water cleaning.

### Maintenance and Repair

- Steel preparation grade P3 (ISO 8501-3).
- Water jetting to Wa 2½ (ISO 8501-4).
- Flash rust degree of maximum FR M (ISO 8501-4).
- Remove dust, blast media and loose materials.

### Roughness

- Surface profile Medium (G) (ISO 8503-2).

Consult Hempel's separate Surface Preparation Guidelines for more details.

## Application

### Mixing ratio

Base 35749 : Curing Agent 98040  
(2 : 1 by volume)

Stir well before use.

### Thinner

No thinning

### Cleaner

Hempel's Tool Cleaner 99610

### Pot life

Product temperature	10°C [50°F]	20°C [68°F]	30°C [86°F]
Pot life	2 hours	1 hour	½ hours

## Application method

Tool	Thinning max vol.	Application parameters
Brush	No thinning	Not Applicable.

If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness.

## Film thickness

Specification range	Low	High	Recommended
Dry film thickness	100 micron [3.9 mils]	150 micron [5.9 mils]	150 micron [5.9 mils]
Wet film thickness	100 micron [4 mils]	150 micron [6 mils]	150 micron [6 mils]
Theoretical spreading rate	10 m <sup>2</sup> /L [410 sq ft/US gal]	6.5 m <sup>2</sup> /L [260 sq ft/US gal]	6.5 m <sup>2</sup> /L [260 sq ft/US gal]

Product may be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate, drying and curing time and overcoating interval. For best performance, avoid excessive film thickness.

## Application conditions

- Surface temperature must be above 5°C [41°F] during application and curing.
- Application can take place on a moist surface, i.e. a surface with a sheen of water, but no pooling water.

## Relative Humidity:

- Relative humidity must be below 100% during drying and curing.

## Drying and overcoating

### Product compatibility

- Previous coat: According to Hempel's Specification.
- Subsequent coat: According to Hempel's Specification.

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## Drying time

Surface temperature		10°C [50°F]	20°C [68°F]	30°C [86°F]	40°C [104°F]
Touch dry	hours	14	5½	3½	2½
Hard dry	hours	26	9	5	3½

Determined for dry film thickness 150 micron [5.9 mils] at standard conditions, see Hempel's Explanatory Notes for details.

## Overcoating

Hempel's specification supersedes any guidelines indicated in the overcoating table

Quality name		10°C [50°F]	20°C [68°F]	30°C [86°F]	40°C [104°F]
Immersion					
Hempadur EM 35740	Min	8 h	2 h	60 min	30 min
	Max	20 d	10 d	5 d	60 h

Overcoating times are indicative for products of the same generic chemistry. Consult Hempel's specification for more information.

## Overcoating details

- If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.
- The surface must be dry and clean prior to application.

## Other remarks

- Epoxy coats have an inherent tendency of chalking in outdoor exposure. This does not affect the performance of the coating.
- Hempel's Specification supersedes any recommendations given in the Product Data Sheets.

## Storage

### Shelf life

Ambient temperature	25°C [77°F]	35°C [95°F]
Base	36 months	24 months
Curing Agent	36 months	24 months

Shelf life from date of production, when stored in original, unopened containers. Thereafter, the product quality must be re-inspected. Always check the best before date or expiry date on the label.

### Storage conditions

- Product must be stored according to local legislation, at maximum 40°C [104°F], without direct sunlight and protected from rain and snow.

## Additional documents

Additional information is available at the Hempel website [hempel.com](http://hempel.com) or at your local Hempel website:

- Explanatory Notes explaining the fields in this Product Data Sheet.
- Surface Preparation Guidelines.
- Application Guidelines for different application methods.
- General Application Guidelines

This Product Data Sheet ("PDS") relates to the supplied product ("Product") and is subject to updating from time-to-time. Accordingly, the buyer/applicator should have regard to the PDS supplied together with the relevant batch of the Product (and not an earlier version). In addition to the PDS, the buyer/applicator may receive some or all of the following specifications, statements and/or guidelines as listed below or as are available from the Hempel website under 'Products' at [www.hempel.com](http://www.hempel.com) (the "Additional documents"):

No.	Document description	Location/comments
1.	Technical Statement	One-off specific advice provided on request for specific projects
2.	Specification	Only issued for specific projects
3.	PDS	This document
4.	Explanatory Notes to the PDS	Available at <a href="http://www.hempel.com">www.hempel.com</a> and contain relevant information about the Product testing parameters
5.	Application Instruction	Where available, at <a href="http://www.hempel.com">www.hempel.com</a>
6.	Generic technical guidelines (e.g. on application and surface preparation)	Where available, at <a href="http://www.hempel.com">www.hempel.com</a>

In the event of a conflict of information between the PDS and the Additional documents, the order of priority of information shall be in the order as set out above. In such event you should also contact your representative at Hempel for clarification. Furthermore, the buyer/applicator must have full regard to the relevant Safety Data Sheet provided with each Product and which can also be downloaded from [www.hempel.com](http://www.hempel.com).

Hempel shall not be liable for defects where the application of the Product has not been made fully in accordance with the recommendations and requirements set out in the relevant PDS and the Additional Documents. The information and terms of this disclaimer apply to this PDS, the Additional documents and any other documents supplied by Hempel in respect of the Product. In addition, the Product is supplied and all technical assistance is given subject to Hempel's General Conditions of Sale, Delivery and Service, unless otherwise expressly agreed in writing.